



Duplex-specific nuclease

Duplex-specific nuclease (DSN) is an enzyme purified from hepatopancreas of Red King (Kamchatka) crab [Shagin *et al.*, 2002].

Applications

- Full-length enriched cDNA normalization
- Construction of normalized RNA-seq libraries for NGS
- Normalization of genomic DNA
- cDNA depletion and ribosomal cDNA depletion
- cDNA subtraction
- SNP detection
- Construction of repeat-free FISH probes
- Multiplexed fluorescence detection of miRNAs
- Quantitative telomeric overhang determination

DSN features

- Selectively cleaves ds DNA and DNA in DNA-RNA hybrid duplexes
- Discriminates between perfectly and nonperfectly matched short duplexes
- Inactive towards ss-DNA and RNA
- Thermostable
- Reaction can be stopped with EDTA
- Tolerant to Proteinase K

Available products

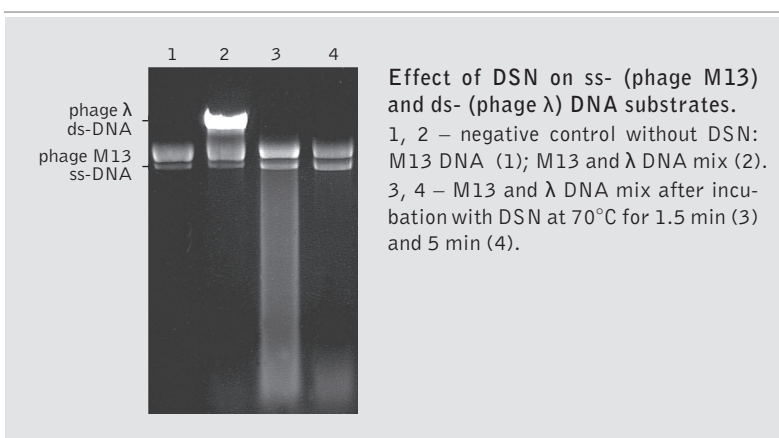
Product	Cat.#	Size
Duplex-specific nuclease, lyophilized	EA003	10 U
	EA001	50 U
	EA002	100 U
	EA008	1000 U

Storage: -20°C.

Products are intended for research purposes only.

References

Shagin DA, Rebrikov DV, Kozhemyako VB, Altshuler IM, Shcheglov AS, Zhulidov PA, Bogdanova EA, Staroverov DB, Rasskazov VA, Lukyanov S. A novel method for SNP detection using a new duplex-specific nuclease from crab hepatopancreas. *Genome Res.* 2002; 12 (12):1935-42. / pmid: 12466298



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